

ENGINEERING CHECKS AGER 2 CLASS

AUXILIARIES (AX) PRE-UNDERWAY PHASE AGER 2

5811	ANCHOR	WINDLASS (Inport	Drop Test)
Component/Sub-Con		Proposed	Accepted
		Procedure	Procedure
Inspect Tech Manual Support			
Inspect PMS Support			
Inspect posted operating/safet	y instructions		
and lubrication data			
Inspect fluid samples			
Inspect for proper HPU fluid l			
Inspect for proper lubrication	of mechanical		
components			
Inspect Gauge Calibration			
Inspect relief valve data is pro			
Inspect all flex hoses are prop	erly tested and		
labeled			
Inspect mechanical brake oper			
Inspect stroke control linkages	3		
Inspect flange shields			
Inspect for adequate nitrogen	charge for		
windlass			
Inspect speed limiter			
Inspect for adequate LP air pro	essure for chain		
compressor			
Inspect capstan/wildcat brake			
mechanical brake components	(worm gear end		
cap as required).			
Inspect electric brake			
Inspect filter differential indic			
Inspect HPU mechanical seal			
Test Compensating Relief Valve is properly			
set			
Test - Conduct Inport Anchor Drop test			
- Inspect Servo/Replenishment Pressures			
during wildcat operation			
- Inspect Chain Compressor operation			
- Inspect Anchor drops from the	ne hawsepipe		
- Test electric brake operation			

- Inspect reduction gear lubrication (gauges/sight flows/dipsticks)	
Test crossover valve operation	
Test wildcat/windlass solenoid switch	
Test Main Relief Valve lifts correctly	

5600 / 5611	STEERING (I	nport System Ve	rification)
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOS	S Support		
Inspect PMS Support			
Inspect operating/safety instruc			
system/electrical wiring diagram	ns are posted		
Inspect proper fluid levels			
Inspect hydraulic oil fill connec	ctions are properly		
labeled			
Inspect fluid samples			
Inspect Gauge Calibration			
Inspect rudder stock grounding	straps		
Inspect filter indicators			
Inspect Servo/Replenishment P			
Inspect all flex hoses are prope			
Inspect flange shields are prope	erly installed		
Test N2 accumulators are property	erly charged		
Test the trick wheel stops			
Inspect the crush block clearan	ces		
Test the rudder follow up error	(1 deg increments at		
0 to 5 deg; 5 deg increments at	5 to 25 deg)		
Test ABT operation			
Test compensator relief valve s	ettings		
Test main relief valve settings			
Test (inport) rudder swing chec	eks		
Test (inport) blocking valve			
Test auxiliary emergency steering pump			
Test manual emergency steering system			
Inspect ram for scoring			
Test steering casualty alarm			
Test pump remote operation and transfer of controls			
to pilot house			
Test for static rudder split (pilo			
Test for indicator error (pilot he	ouse in control)		

A-002/105-11	EMERGENCY/SHIP'S SERVIC DIESEL GENERATORS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Engine Sump Level		
Inspect Turbocharger Sump Level		
Inspect Start Air Lubricator Oil Level		
Inspect Governor Oil Level		
Inspect Lube Oil Sample		
Inspect J/W Expansion Tank Level		
Inspect "Do not open access" and		
Expansion Tank warning "Poison" are		
posted		
Inspect/test fuel valve trip		
Inspect Relief Valves		
Inspect Flange Shielding		
Inspect For Exhaust Leaks		
Inspect Filters, Strainers		
Inspect Governor and Fuel Linkage for		
Binding		
Inspect J/W Standby Pump		
Test Blow In Damper		
Test pre-lube system operation		
Test Jacket Water High Temp Alarm		
Test Lube Oil Filter High DP Alarm		
Test low lube oil pressure alarm		
Test Remote Shut Down		
Test Local Shut Down		
Test Barring Device Interlock		
Test Engine Blow Down		
Test Local Pneumatic start		
Test dead bus auto start		
Test Overspeed Trip		
Test 80% load for 15 minutes		
Inspect for fuel/lube oil leaks		
Inspect pyrometer operation		
Inspect manometer		
Inspect sea water cooling pump		
Test high water/generator bearing temp		
alarm		

5512 / 5513 / 5515	LOW and MEDIU	M PRESSURE A	IR SYSTEM
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS	S Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect operating/safety instruc	tions are posted		
Inspect compressor oil level and	d oil samples		
Test compressor pressures and	temperatures		
Test compressor capacity contr	ol system		
Inspect compressor belt conditi			
Test compressor auto control ar	nd safety switches		
a. Operational control switch	ches (115/120/125)		
b. Low oil pressure			
c. High discharge pressure			
d. High air and water temp			
Inspect all relief valve testing is	s within periodicity		
Inspect location of intake/vent	11 1		
Inspect receiver flask certification	ion		
Test priority valve operation			
Inspect sea water cooling system	m		
Inspect 50/50 mixture of ethyle	ne glycol		
Test type I and type II dehydrat	tor operation		
a. Gauge calibration			
b. Tower operation			
c. Purge air pressure			
d. Automatic drain operation			
e. Dew point			
f. Inspect PMS and Tech N	Manual support		

5511 / 5515	HIGH PRES	SURE AIR SYS	TEM
Component/Sub-Component		Proposed	Accepted
		Procedure	Procedure
Inspect Tech Manual and EO	SS Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect operating/safety instr	uctions are posted		
Inspect compressor oil level a	and oil samples		
Test compressor auto control	and safety switches		
a. Start / Stop switch			
b. Low oil pressure switch	ch		
c. Jacket water temp swi	tch		
d. Compressor temp/pres	sure monitor operation		
Inspect compressor pressures	and temperatures		
Inspect compressor drive belt	t condition		
Inspect condensate monitorin	g/drain system		
Inspect all flex hoses are proj			
Inspect all relief valve testing			
Inspect HP air flask certificat	ion		
Inspect sea water cooling sys			
Inspect air intake/ventilation	1 1 V		
Inspect all HP/LP air reducin			
Inspect fresh water pump belts			
Inspect capacity			
Inspect oil wipers			
Inspect pressure regulator valve			
Inspect 50/50 mixture of ethy	lene glycol		
Inspect seals for oil leaks			

5210	FIRE PUMPS (ELECTRIC and	STEAM)
Component/Sub-C	omponent	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOS	S Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect Transducer Calibration			
Inspect Coupling Guard			
Inspect relief valves are within	periodicity		
Test remote start/stop functions	}		
Test local start/stop functions			
Inspect pump operation/design	discharge pressure,		
unusual noise, bearing temps, e	tc.		
Test the over speed trip (STEA	M)		
Test the speed limiting governo			
Test the turbine auxiliary lube			
automatic start switch operation	n (STEAM)		
Inspect lube oil filter indication	s and oil level		
(STEAM)			
Test combination exhaust and r			
Inspect the packing and mechan	nical seal leakage		
Inspect for ferrous fasteners			
Inspect the resilient mounts			
Inspect condition of expansion joints			
Inspect all flex hoses are properly tested/labeled			
Inspect piping lagging			
Inspect grounding straps			
Test remote operated suction/discharge valves			
Inspect the suction strainer			

5240	SEAWATE	R SERVICE PUM	IPS
Component/Sub-Component		Proposed Procedure	Accepted Procedur e
Inspect Tech Manual and EOSS	Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect Transducer Calibration			
Inspect Coupling Guard			
Test remote start/stop functions			
Test local start/stop functions			
Inspect pump operation/design discharge pressure, unusual noise, bearing temps, etc.			
Inspect packing and mechanical	seal leakage		
Inspect for ferrous fasteners			
Inspect foundation and resilient	mounts		
Inspect condition of expansion	joints		
Inspect all flex hoses are proper	ly tested/labeled		
Inspect piping lagging			
Inspect grounding straps			
Test remote operated suction/discharge valves			
Inspect the suction strainer			
Test the firemain to seawater re operation, condition and relief v			

5140	AIR COND	ITIONING PLA	NTS
Component/Sub-	Component	Proposed	Accepted
•	•	Procedure	Procedure
Inspect EPA certifications			
Inspect Tech Manual and EO	SS Support		
Inspect PMS Support	• •		
Inspect Gauge Calibration			
Inspect operating/safety instru	uctions are posted		
Inspect compressor oil level a	and oil samples		
Inspect warning at entrance (Freon usage) posted		
Inspect Refrigerant logs			
Test halocarbon monitor oper	ration		
Test capacity control system	operation		
Test calibration of safety shur	tdowns/alarms		
a. HP/LP pressure switch	ies		
b. C/W, S/W flow/press/	temp switches		
c. Low refrigerant temps	switch		
d. Low oil pressure switch	h		
Inspect moisture indicators			
Test compressor operation (p	arameters, suct/disch		
valves)			
Test for leaks (oil/freon/water	r)		
Inspect chilled water pump			
 a. suction valve 			
b. discharge valve			
c. mechanical seal			
Inspect chilled water expansion	on tank		
a. Proper operating level			
 b. Filling pipe air gap 			
 c. Relief valves and vac 	uum breakers		
d. Hose disconnects and	warning sign		
Test PPU			
Inspect recovery unit (Invented	ory Item)		
Inspect for available vacuum pump			
Inspect sea water system			
a. Pump operation			
b. Zincs and nylon tube inserts present			
c. Condenser header condition			
d. Seawater Regulating valve			
Inspect motor controller			
Inspect coupling guard			
Inspect resilient mounts			

Inspect flex hoses		

AUXILIARIES (AX) UNDERWAY DEMO PHASE

5811	ANCHOR WINDLASS DROP AND RETRIEVAL DEMONSTRATION		
Component/Sub-Con	nponent	Proposed Procedure	Accepted Procedure
Test – Conduct Anchor Drop a test	and Retrieval		
	ect Servo/Replenishment and Main Pressures during wildcat operation		
- Inspect Anchor drops from the	ne hawsepipe		

5600 / 5611	STEERING	DEMONSTRA	TION
Component/Sub-C	omponent	Proposed	Accepted
		Procedure	Procedure
Inspect proper fluid levels			
Inspect correct Servo/Replenish	nment pressures		
Test – Demonstrate timed rudd	er swing checks/		
blocking valve test Ahead (as per provided			
procedure)			
Test - Demonstrate timed rudder swing checks/			
blocking valve test Astern (as per provided			
procedure)			
Inspect for dynamic rudder spli	t from helm indicator		

5331	WATER HEATERS		
Component/Sub-	-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EO	SS Support		
Inspect PMS Support			
Inspect list of heaters onboar services (berthing/laundry/ga			
Inspect gauge calibration			
Inspect outlet temp at heater	(verify operation)		
Inspect relief valve test data			
Inspect relief valve drain pipe	ing		
Inspect cold water inlet pipe	for check valve		
Test high temp switch setting			
Test high temp switch warning	ng light		
Inspect lagging condition			
Inspect for steam / water leaks			
Inspect Temp Reg Valve for locking device			
Inspect heater foundation			-
Test water temp at basin/spig	ot		

5351		ER and COPPE STEAM PIPING	
Component/Sub-Compo	nent	Proposed Procedure	Accepted Procedure
Inspect Gauge calibration			
Inspect PMS Support			
Inspect warning placard posted – war	rning bleed		
pressure before disconnecting			
Inspect piping/valve condition and or	peration		
Inspect protective cover			
Inspect relief valve for test data			
Inspect overall area preservation			
Inspect ship has reviewed NAVSEA	Wash DC R		
130557Z FEB 01 concerning copper	piping		
Inspect the ship has established an inspection			
program IAW NAVSEA message			
Inspect - Conduct a walkthrough of all copper			
service steam piping to check for leaks IAW			
NAVSEA message			

		TER PRODUCT ATION – REVE	
Component/Sub-Compon	ent	Proposed	Accepted
		Procedure	Procedure
Inspect Tech Manual Support			
Inspect PMS Support			
Inspect relief valves are within period	icity		
Inspect HP pump oil level			
Inspect flexible hose condition and tes	st tag		
Test salinity dump valves			
Test salinity panel			
Inspect Accumulator Pressure			
Test the operation of the product and brine			
flowmeters			
Test – Demonstrate 80% water produc	ction capability		
during the 4 Hour Water Production I	Demonstration		
- Inspect RO to ensure the unit has no	ot been set to		
produce above maximum recommende			
(discharge pressure setting, production			
injection temperature diagram curve a			
- Inspect the operating panel for alarm			
conditions.			
- Inspect 3 and 20 micron filter differential pressure			
- Inspect all fittings and connections for leaks			
- Inspect demineralizer operation			
Inspect freshwater flush			

5311	WATER PRODUCTION DEMONSTRATION – FLASH TYPE EVAPS		
Component/Sub-Co	mponent	Proposed Procedure	Accepted Procedure
Inspect PMS and Tech Manual s	upport		
Inspect gauge calibration			
Test flow meter			
Inspect evaporator shell (sight gland scale buildup)	lasses, diffuser cap		
Test salinity dump valves			
Test interlock device between powater valves	otable water and feed		
Inspect feed pump (labeled, packing gland, foundation, seal / gland cavity)			
Inspect brine pump (labeled, pac	king gland,		
foundation, seal / gland cavity)			
Inspect distillate pump (labeled, foundation, seal / gland cavity)	packing gland,		
Inspect brine pump (labeled, pac foundation, seal / gland cavity)	king gland,		
Inspect heater drain pump (labeled, packing gland, foundation, seal / gland cavity)			
Inspect flexible hose condition and test tag			
Inspect feedwater strainer (foundation and basket)			
Inspect pipe labeling and lagging condition			
Test – Demonstrate 80% water p during the 4 Hour Water Produc			

8543		DUMBWAITER	
Component/Sub-Comp	onent	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Su	pport		
Inspect PMS Support			
Inspect posted operating/safety inst	ructions at each		
station			
Inspect posted lubrication chart at to	op station		
Inspect trunk bi-parting doors			
Inspect machinery access cover bol	ts & nuts		
Inspect machinery oil level			
Inspect hoist machinery mounting h	nardware		
Inspect hoist drum			
Inspect hoist wire rope and end fitti	ings		
Test slack rope device and limit sw	itch		
Test the hoist brake			
Test the up over travel limit switch			
Test the up deck level limit switch			
Test trunk bi-parting door limit swi	tch		
Inspect car broken rope device			
Inspect car bi-parting door assembl	y		
Inspect car for missing components			
Test lower level trunk bi-parting do	ors and limit		
switch			
Test down over travel limit switch			
Test down level limit switch			
Inspect trunk buffer springs			
Test E-call and sound powered pho	ne system when		
installed			
Inspect clean out cover mounting ha			
Inspect motor controller for loose le			
placards, grounds and correct fuses			
Inspect dumbwaiter trunk for preser			
cleanliness			
Inspect guide rails			
Test each control station E-stop but	ton		

8543 PAC		CKAGE CONVEY	OR
Component/Sub-Compone	Component/Sub-Component		Accepted
		Proposed Procedure	Procedure
Inspect Tech Manual and EOSS Suppo	rt		
Inspect PMS Support			
Inspect posted operating/safety instruct	ions (two man		
rule/ do not ride) at each station			
Inspect posted lubrication chart at top s	tation		
Test for audible warning when starting	conveyor		
Inspect that all station doors are locked			
Inspect that all station controllers are lo	ocked		
Test door interlock system			
Inspect load/unloader at each station			
Test door cannot close when loader/unl	loader is in		
horizontal or 30 deg inclined position			
Test loader/unloader down interlock sw	vitch at each		
station below upper most level			
Test jam limit switch at each station			
Inspect safety shields are properly insta	ılled		
Test up-over travel switch/device opera	ation		
Test clean out door interlock switch if a	applicable		
Test down overtravel device and switch	1		
Test indexing feature			
Test E-stop and run/stop buttons at all s	stations		
Inspect proper florescent lighting at each	ch station		
Inspect trunk shielding and mounting h	ardware		
Inspect trunk guide rails			
Inspect conveyor trunk for preservation	/cleanliness		
Inspect all carrier trays are installed and	d tight		
Test all station growlers and phone circ	cuits are		
functional and headsets are present			
Inspect conveyor has been load tested v	within the last		
five years to include weight test data			
Inspect speed reducer is filled to proper			
Inspect drive, driven and carrier chains			
tensioned			
Test bite panel for correct components			
operation			
Inspect motor controller for loose leads	s, posted		
placards, grounds and correct fuses			
Inspect drive machinery for missing/loc	ose		
components			

5161 REFRIG		GERATION PLA	ANTS
Components/Sub-Con	nponents	Proposed Procedure	Accepted Procedure
Inspect EPA certifications			
Inspect Tech Manual and EOSS S	Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect operating/safety instruction	ons are posted		
Inspect compressor oil level and	oil samples		
Inspect warning at entrance (Free	n usage) posted		
Inspect Refrigerant logs			
Test halocarbon monitor opera	tion		
Test capacity control system oper	ration (vent plug)		
Test calibration of alarm / shutdo	wns		
a. HP / LP pressure switches	}		
b. Sea water flow / pressure	switch		
Test compressor operation (param	neters,		
suction/discharge valves)			
Inspect for piping suppressors			
Inspect for leaks (oil/freon/sea wa	ater)		
Inspect refrigerant recovery syste	m/vacuum pumps		
Inspect sea water system (pump of	Inspect sea water system (pump operation, zincs,		
nylon tube inserts, and condenser header)			
Test chill/freezer boxes for fan operation, lighting,			
coil condition and curtains			
Inspect ventilation (flow/location	/indicators and		
alarms			

6641 F		AN ROOMS	
Component/Sub-Cor	nponent	Proposed Procedure	Accepted Procedure
Inspect deck condition			
- No standing water			
- Deck rusted / exfoliated			
- Deck drain not installed			
- Deck drain missing, not secured or inoperative	l within deck socket		
Inspect deck/bulkheads have no p	painted over rust		
Inspect lighting is operative and of			
Inspect adequate lighting present			
Inspect vent duct condition	т врисс		
- Access covers present			
- Access cover fasteners not ruste	ed/missing		
- Duct interior is clean			
Inspect correct vent/piping system	n labeling		
Inspect fan motor installed correct	etly (flow)		
Inspect filters are clean and can b			
Inspect filter DP gauge is operation			
Inspect vent heating element is of	perative and not		
deteriorated			
Inspect cooling coils are clean			
Inspect thermostatic controls are connected and operational	calibrated,		
Inspect the cooling coil drain is p	iped to the deck		
drain and is not clogged			
Inspect the proper color coding o			
Inspect that all hand wheels are p			
Inspect for damaged / missing lagging			
Test the C/W or steam solenoids are operational			
Inspect for chilled water / steam leaks			
Inspect for bull's eye and CCOL	*		
Inspect for any unauthorized stov			
Inspect for any unauthorized flan	nmables		
Inspect the filter cleaning shop			

5331	POTAB	LE WATER PU	MPS
Component/Sub-Comp	ponent	Proposed	Accepted
		Procedure	Procedure
Inspect Tech Manual and EOSS Su	upport		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect Transducer Calibration			
Inspect Coupling Guard			
Test local start/stop functions			
Inspect pump operation/design disc	charge pressure,		
unusual noise, bearing temps, etc.			
Inspect packing and mechanical se	al leakage		
Inspect for ferrous fasteners			
Inspect foundation and resilient mounts			
Inspect all flex hoses are properly tested/labeled			
Inspect grounding straps			

ELECTRICAL (EL) PRE-UNDERWAY PHASE AGER 2

	SHIPS SERVICE DIESEL GENERATORS			
COMPONENT/SYSTEM		PROPOSED PROCEDURE	ACCEPTED PROCEDURE	
Test Dead Bus Pick-Up	Start			
Test reverse pov	ver relays			
Test parallel ope	eration			
Test Auto/Manu Shedding	ial Load			
		400 HERTZ DISTRIBUTIO	ON SYSTEM	
		(MOTOR GENERA	TOR)	
COMPONENT/SYSTEM		PROPOSED PROCEDURE	ACCEPTED PROCEDURE	
Test split and parallel operation				
	TELL-TAL	E PANEL/NAVIGATION S	IGNAL LIGHT PANEL	
COMPONENT	T/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE	
Test navigationa panel	al lighting			
Test signal light panel.				
Measure insulatives resistance of electricuits				
		ANNOUNCING SY	STEMS	
COMPONENT/SYSTEM		PROPOSED PROCEDURE	ACCEPTED PROCEDURE	

Test general, cher collision alarms fi stations			
Test 1MC from al	l stations		
Test 1 MC Oscillator.Amplif	ier		
Test 6MC operati	on		
Test 21MC operation	tion		
		DEGAUSSING SY	YSTEM
COMPONENT	SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Conduct linearity	test		
Conduct on line g	round test.		
Inspect degaussin	g folder		
	AU	TOMATIC BUS TRANSF	ER EQUIPMENT
COMPONENT/SYSTEM		PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Test all main and space vital power lighting ABTs			
		EVAPORATO	ORS
COMPONENT	SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Test dump valve of	operation		
	EVAPORATORS		
COMPONENT/SYSTEM		PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Test alarm setting	s		

		WIND INDICATING SYSTEM		
COMPONENT/SYSTEM		PROPOSED PROCEDURE	ACCEPTED PROCEDURE	
Test System For Proper Operation				
	ELECT	RICAL PLANT CONTRO	L CONSOLE (EPCC)	
COMPONEN	T/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE	
Test Console I Alarms	Test Console Lamps and Alarms			
		THERMAL IMAGING	SURVEY	
COMPONENT/SYSTEM		PROPOSED PROCEDURE	ACCEPTED PROCEDURE	
Commence thermal imaging throughout the ship				
NOTE: Engineering vital equipment for getting underway will be surveyed first. Any controller, distribution fuse box, power panel and ABT surveyed above ambient temperature of 40 degrees centigrade and above must be repaired prior to getting underway.				

ELECTRICAL (EL) UNDERWAY PHASE AGER 2

NOTE: Electrical Underway Checks Consist Mainly Of Space Walk-Through
Throughout The Ship And Thermal Imaging Survey
In each space inspect the following if applicable:

(INSPECT) ELECTRICAL SAFETY

COMPONENT/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Were flat irons a high-grade commercial type with a three pronged cord?		
Were Ironing Board Stations in berthing space modified to remove spotlight and fill the access hole? Ensure irons are not hardwired.		
Have electronic and electrical shorting probes been modified by installing a nylon screw in the end of the probe and soldering the clip to the conductor?		
Are portable tools/devices not stamped "Double Insulated" or equipped with a three pronged cord?		
Were Hospital grade plugs		
used on portable equipment?	(INSPECT) FUSE 1	DOVEC
COMPONENT/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Are fuses pulled from designated circuits without danger tags affixed?		
Are there loose or missing locking nuts or gear adrift?		
Are circuits properly labeled for easy identification?		
Are there any bent, twisted, misaligned, or broken fuse clips?		
Is the interior rusty or dirty?		
Are fuses of the correct amperage and voltage installed?		

	(INSPECT) FUSE BOXES		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE	
Are circuits fed from one set of fuses (except battle lantern circuits) multiple?			
Are fuse clips phosphor- bronze instead of silver plated? Were door hinges broken?			
Are non-silver ferruled fuses installed?			
Are SHAWMUT "AMP-TRAP" current limiters installed in place of fuses?			
Is clearance provided to permit complete accessibility for maintenance, repair, renewal of fuses, and testing?			
	(INSPECT) POWER	PANELS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE	
Were access holes left in panels after removal of circuit breakers?			
Do labels specify the proper information?			
Depress ground detector push buttons, were any grounds indicated?			
Do Breaker ratings match the circuit label current rating?			

Are multi-phase circuits missing breaker connecting handles?		
Were power panels located inside galley spaces?		
Is clearance provided to permit complete accessibility?		
	(INSPECT) MOTOR CO	NTROLLERS
COMPONENT/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Were interiors dirty, rusty, deteriorated, or contained gear adrift?		
Were wiring diagrams, schematics or overload heater tables missing?		
Was controller electrical wiring properly banded?		
Were Start, Stop, "Emergency Run" or Reset buttons seized, missing or inoperative?		
Were rubber boots cracked, torn or missing?		
Were overload relay heaters properly sized and adjusted to provide adequate protection for the motor?		
Were switches protected against inadvertent activation?		
Were controllers with multiple power sources properly labeled?		

	(INSPECT) MOTOR CONTROLLERS		
COMPONENT	/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Were controllers operating stations labeled?			
Is clearance provi permit complete a for operation, marepair, renewal of testing?	accessibility intenance,		
		(INSPECT) LIGI	HTING
COMPONENT	/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Were darken ship operative and adjuproperly?			
Were light fixture and covers secure			
Were over-sized l installed in lightin			
Were light fixture lenses, protective faceplates?	guards, or		
Did diesel module adequate lighting			
Were spray-tight adequately protec water intrusion?			
Was bunk lighting hanging, or not rot through the inside stanchions?	outed		

Were plastic-case reflectors and tog properly grounder	gle switches		
		(INSPECT) BATTLE	LANTERNS
COMPONENT	/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Were relay-opera installed in suffic			
Are lanterns insta suitable bracket a prevent removal o	ssemblies to of lantern?		
Were lanterns inc	es and relay		
frames grounded?	?	(INSPECT) CAF	BLING
COMPONENT	/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Was PVC cabling (new construction	g installed n only)?		
Was PVC cabling	g installed n only)?		
Was PVC cabling (new construction Were dead-ended properly	g installed n only)? cables ated?		
Was PVC cabling (new construction Were dead-ended properly identified/termina Were useless or	g installed n only)? I cables ated? improperly s removed? errly or were		
Was PVC cabling (new construction Were dead-ended properly identified/termina) Were useless or installed cables Was cabling prop supported, routed	g installed nonly)? I cables ated? improperly removed? berly or were bing utilized?		

	(INSPECT) CABLING		
COMPONENT	/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Were cables prote being handholds of stepped on?			
Was cabling run t beams without the chaffing rings?			
Was cabling runn metal partitions ed grommets?			
Was cabling on wand engineering s deteriorated?			
Were cable stuffing properly assemble			
Were multiple cal through one stuffi			
Were multi-cable installed in Flamm Storerooms?			
	(I)	(INSPECT) CASUALTY POWER CABLES	
COMPONENT	/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Were cable ends parterminated?	properly		
Were cables deter age, heat, and hur			
Were normally en power terminals l			

Were racks properly identified as to number/length of cables assigned to the rack? Is there a label attached at the end of the cable to indicate the length and stowage rack number?		
Are cable leads properly identified for phase identification?		
Was miscellaneous gear stowed on casualty cable racks?		
Were cable ferrules missing or heavily oxidized?		
Was an improper number/length of cable installed on a cable rack?		
Were wrenches missing from terminals?		
Were covers installed on power terminals?		
	(INSPECT) WORKI	BENCHES

COMPONENT/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Was the electrical workbench properly installed, to include: - Front panel, Side Panel, Back panel and Kneehole Insulation. - Disconnect Switch properly installed and labeled. - 48-inch ground strap for every 4 feet of workbench. - 5KVA isolation transformer installed. - Safety Placards.		
	(INSPECT) BATTERY	LOCKERS
COMPONENT/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Was a Battery Log maintained? Test electrical interlock between exhaust ventilation and battery charger? Are Alkaline and Lead Acid Batteries being serviced in the same facility? Is each locker provided with: - Rubber Gloves and Aprons. - Goggles. - Two battery fillers. - Two battery test sets. - One soda water container.		
Does the locker contain an eye wash station and a deluge shower?		

Are battery storage racks greater than 12 inches between tiers?		
Were battery hold-down clamps provided?		
Are Acids stored in appropriate protective containers?		
Are battery charger plugs and jacks marked NEG. and POS.?		
(II	NSPECT / TEST) SHORE	POWER SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Is shore power being properly rigged?		
Did shore power shunt trip interlocks trip its associated breakers when tested?		
Was shore power system cabling between the receptacles and the ship's switchboard insulation resistance within EOSS or PMS limits?		
Were shore power indicating lights operative, white in color, and all screws installed?		
mstaned?		

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Does the shore power system		
meet the current standards:		
- Have a Viking		
Connector System.		
- Have AQB-LF 400		
Amp Circuit Breaker		
with shunt trip.		
- Have phase sequencing		
and phase orientation		
devices.		
- Have power available		
lights at switchboard		
and shore power		
connection box.		
Have installed ammeter and		
selector switch to monitor		
total shore power current.		
(INSPECT) BUS TRANSFI	ER EQUIPMENT
COMPONENT/SYSTEM	PROPOSED	ACCEPTED
	PROCEDURE	PROCEDURE
Were Automatic Bus Transfer		
Devices operating properly?		
(INSPECT) BUS TRANSFI	ER EQUIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Were ABT's installed for the		
following:		
- Emergency Lighting.		
- IC Switchboard and		
panels.		
- Steering power panel.		
- Pumps associated with		
the main and auxiliary		
machinery plant having		
Low Voltage Release		
(LVR) control.		
- Fire pumps.		
- Fire extinguishing		
auxiliaries and		
controls.		

Did ASCO ABT transfer switches have an electrical charge on the metal screw on		
the manual operator?		
Was the sliding interlock on		
manual bus transfer switches		
effective at preventing both		
breakers from being closed at		
the same time?		
Are feeder circuit breaker		
megger holes blanked off?		
Were Normal/Alternate		
source indicating lights		
operative?		
(INSPEC	CT) ELECTRICAL DISTR	RIBUTION EQUIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Was electrical distribution		
equipment securely mounted?		
Electrical distribution		
equipment have loose or		
missing covers?		
Were control knobs or fasteners missing from		
electrical equipment?		
Was electrical equipment		
protected from water		
intrusion?		
Is electrical properly mounted		
or was it suspended solely by		
electrical cables?		
Were 440 multipurpose		
outlets properly phased?		

Did Standard Navy		
Receptacles (SNR) and Multi-		
Purpose Outlets (MPO) have		
an interlock switch or was the		
switch function such that the		
plug could not be removed		
from an energized receptacle?		
Were electrical receptacles		
broken or damaged?		
Were 400HZ AC, 60HZ AC,		
and DC convenience outlets		
labeled to prevent equipment		
being used with the wrong		
frequency?		
	(INSPECT) MO	TORS
COMPONENT/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Were motor foundations		
properly preserved?		
Was resilient mounted		
electrical equipment grounded		
to the ships hull through		
ground straps?		
Did electrical rotating		
machinery have ball check		
grease fittings (zerk fittings)		
installed?		
Were coupling, belt, or chain		
guards effective?		
1)	NSPECT) MISCELLANEO	OUS EQUIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Is permanently mounted		
electrical equipment		
hardwired to the ships		
electrical system?		
Is hardwired electrical		
equipment permanently		
mounted?		

Was more than 1 multi-	
purpose power strip	
connected to one isolated	
receptacle circuit?	
Is electrical equipment	
mounted on non-conducted	
surfaces properly grounded?	
Were Surge Protectors of the	
approved type?	
Are portable electric device	
power cords properly tinned?	
Are permanent-type safety	
precautions, operating	
instructions, high voltage	
warning signs, and	
resuscitation instructions	
installed where required?	
Is stowage in the electrical	
division adequate?	
Did electrical connection	
boxes have knockouts pushed	
in leaving access holes In the	
side?	
Are non-watertight	
connection boxes being used	
in engineering spaces?	
Was rubber matting oil	
soaked, cracked, punctured,	
perforated or had imbedded	
metal or conductive	
Particles?	

Did varnish Dip Tank meet		
installation specifications?		
- No heat source within		
eight feet of tank.		
- Tank was fitted with		
explosion proof		
dedicated exhaust		
ventilation system.		
- Space ambient		
temperature was below		
the		
flashpoint of varnish (78		
degrees Fahrenheit).		
A portable AFFF fire		
extinguisher was installed		
Was accommodation ladder		
lighting of the proper typed?		
(Not to use dress ship lights		
attached to gangway		
handrails)?		
Did dress ship lights have		
broken, missing, or incorrect		
guards?		
Were dress ship light		
receptacles labeled "Dress		
Ship Light Streamers. Not to		
be used for any other		
purpose"?		
Were panel switches		
controlling circuits that are		
de-energized during darkened		
ship operation marked		
DARKENED SHIP?		
Did engine room control		
console have three sources of		
power (normal, alternate, no-		
break)?		
Were bulkhead mounted		
electric heaters provided with		
protective screens?		
Were Electrical/IC test panels		
degraded or inoperable?		
acgraded of moperatie:	l	

have a blade guard which would permit personnel to come in contact with the rotating blades? (INS COMPONENT/SYSTEM Was the installed Cathodic Protection System operative and adjusted IAW PMS? Were the rudder grounding straps made of 1-1/2 inch Wide braided copper and brazed to the rudder stock and the hull? Were shaft grounding brushes correctly installed? Shaft grounding brushes exhibit full contact with the slip ring? Was brush rigging correctly installed? COMPONENT/SYSTEM	PROPOSED PROCEDURE PECT) CATHODIC PRO PROPOSED PROCEDURE	ACCEPTED PROCEDURE TECTION SYSTEM ACCEPTED PROCEDURE
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Was brush rigging correctly installed? COMPONENT/SYSTEM		
installed? COMPONENT/SYSTEM		
COMPONENT/SYSTEM		
	INSPECT) SHIP TELEP	HONE SYSTEM
W/oo the constant commeliable days	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Was the system unreliable due to unresolved software or		
hardware deficiencies?		
(INSPEC	T) SOUND POWERED T	TELEPHONE SYSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Were Sound Powered		
Telephone Circuit Amplifiers		
missing or inoperative?		

Were any Sound Powered Circuits below 50,000 ohms resistance to ground?		
Were Sound Powered Call Signal Stations (growlers) inoperative, corroded, damaged or missing parts?		
Were Sound Powered Jackboxes improperly labele corroded, damaged, or missing parts?	d,	
	(TEST / INSPECT) ALA	RM SYSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Test alarm switchboards and panels.	1	
Were any alarm and warning systems inoperative or missing parts?		
Were Air Flow Alarms operating properly, was the alarm set point properly set, and was the alarm set point posted at the alarm panel?		
(INSPI	ECT) ORDER/INDICATING	/METERING SYSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE	ACCEPTED PROCEDURE
Were Tank Level Indicators (TLI's) out of calibration or inoperative? Were valve position indicator	т	
circuits misadjusted or inoperative?		
Were there missing or inoperative salinity cells?		

ELECTRICAL (EL) POST-UNDERWAY

AGER 2

	AUTOMATIC BUS TRANSFER EQUIPMENT			
COMPONENT/SYSTEM		PROPOSED PROCEDURE	ACCEPTED PROCEDURE	
Test all Combat Systems ABTs during mast inspection.				
OPEN AND INSPECT AS REQUIRED BY THE INSPECTIO			D BY THE INSPECTION	

MAIN PROPULSION PRE-UNDERWAY PHASE AGER 2

2331 MAIN ENGINE Accepted Proposed Component/Sub-Component Procedure Procedure Inspect Engine Sump Level Inspect Turbocharger Sump Level Inspect Rocker Arm Sump Level Inspect Calibration and Indicators Test Blow In Damper Inspect Filters, Gaskets, and Frames Inspect Start Air Lubricator Oil Level Test Bypass and Waste Gate Operation Inspect Governor Lube Oil Level Inspect Lube Oil Sample Inspect J/W Expansion Tank Level Inspect Relief Valves Inspect for Exhaust Leaks Inspect Lube Oil Standby Pump Inspect Flange Shields Inspect J/W Standby Pump Inspect Zinc Anodes Test Lube Oil Sequencing Test Rocker Lube Oil Sequencing Test Prelube Pump Test Jacket Water High Temp Alarm Test Lube Oil Filter High DP Alarm

2331	MAIN ENGINE		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Test Remote Shuto	lown		
Test Local Shutdo	wn		
Test Low Lube Oi	l Shutdown		
Test Low Start Air Alarm			
Test Local Pneumatic Start			
Test ASW Emergency Cooling			
Test Raw Water Alarm			
Test Barring Device	Test Barring Device Interlock		
Test Low Control Air Pressure Alarm			
Test Overspeed Tr	Test Overspeed Trip		
Inspect Governor a	and Fuel Linkage for Binding	5	

2411	REDUCTION GEARS		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Inspect Sump Leve	el and Lube Oil Condition		
Inspect Gear Teeth, Lube Oil Spray Pattern, Casing Interior			
Inspect Attached LO Pump Angle Drive Gear			
Inspect Oil Flow in SFI's			
Inspect Temperature Gauges			
Inspect Casing Exterior			
Inspect Vent Fog I	Precipitator		
Test Shaft Turning Gear and Locking Device			
Test Attached LO Pump Engage/Disengage			
Test Attached CRP/CPP Pump Engage/Disengage			
Test Propulsion Co	ontrol Interlocks		

2411	REDUCTION GEARS		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Test Clutch and Brake Interlocks			
Test Clutch and Brake Low Pressure Alarms			
Inspect Dehumidifier			
Inspect Security Devices			
Inspect Piping Systems			
Inspect Flange Shielding			

2990	LINE SHAFT BEARING	GS	
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Inspect/Sample lu	be oil		
Inspect Sump Dra	in Valve		
Inspect Seals			
Inspect Thermome	eters		
Inspect Lubricator	r		
Inspect Dip Stick	Inspect Dip Stick		
Inspect Lock Wire	es		
Inspect Bearing D	Pepth Mic Surface		

2430	STERN TUBE SEALS		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Gauges			
Cooling Water Piping			
Cooling Water Strainer/Filter			
Test Cooling Water Low Flow Alarm			
LP Air Supply			

2430	STERN TUBE SEALS		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
LP Piping/Hoses/Fittings			
CO2/N2 Piping/Fitting			
Test Inflatable Seal			
Emergency Flax Packing Kit			
Backing Ring			

2451	2451 CRP/CPP		
Compo	nent/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect HOPM			
Inspect Flex Hoses	S		
Inspect Piping			
Inspect Gages			
Inspect Flange Shi	elds		
Inspect Sump Leve	el		
Inspect Oil Condition			
Verify Calibration between Consoles and OD box		K	
Test Slew Rate, Co	ommand Pitch Mismatch Alarn	n	
Test Emergency P	itch Pump		
Inspect Attached C	CRP Pump		
Inspect Mechanic	al Seal		
Test Electric CRP	Test Electric CRP Pump		
Inspect Motor, Pump			
Inspect Pump, Motor Driven			
Inspect Mechanical Seal			
Inspect Controller	, Motor		

2620	LUBE OIL SYSTEMS		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Purifier			
- Test Purifier open	ration		
- Inspect Motor, Pump			
- Inspect Heater			
- Inspect Motor Controller			
- Inspect Purifier			
Test MRG Lube Oil Sequencing			
Test MRG Electric Lube Oil Pump			
Test MRG Attached Lube Oil Pump			
Test /Inspect Lube Oil Strainer Baskets and Enclosures			

2610	FUEL OIL SYSTEMS		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Purifier			
- Test Purifier oper	ration		
- Inspect Motor, Pt	ımp		
- Test Pump, Fuel	Oil		
- Inspect Motor Controller			
- Inspect Purifier			
Inspect Service Pump Motor Controller			
Test Service Pumps			
Test Fuel Oil Service Tanks for Water			
Test Service Tank Suction Valves			
Test Service Tank Recirc Valves			
Test Quick Closing Valves			

2521	CONTROLS		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Test EOT Indicator			
Test EOCC Alarms and Indicators			
Test Eng LOSP Alarms and Indicators			
Test Propeller LOSP Alarms and Indicators			
Inspect Bell Logger			
Test EOT Wrong Direction Alarm			
Test Console Self-Checks			
Inspect Torsionometer and verify calibration data			

1130	HULL STRUCTURE		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Inspect Bilges/Angle Irons			
Inspect Deck Plates			
Inspect Equipment Foundations and resilient mounts			
Inspect Paint and Preservation			
Inspect Pipe Brackets/Hangers			
Inspect Lighting			

ICAS		
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Verify operational status of each workstation	ICAS Tech Manual	
Verify number of required portable data terminals (PDT) and that they are operational	ICAS Tech Manual	
Verify number of required portable diagnostic aids (PDA) and that they are operational	ICAS Tech Manual	
Are any critical system errors shown in the system log?	ICAS Tech Manual	
Ensure data for at least two routes from actual rounds	ICAS Tech Manual	
Ensure data from Data Acquisition devices is being received as required	ICAS Tech Manual	
Verify Demand Data is received and processed accurately	ICAS Tech Manual	
Verify database data is received and processed accurately	ICAS Tech Manual	
Ensure router connections are operating properly	ICAS Tech Manual	
Ensure remote demand data and database data are available to be viewed.	ICAS Tech Manual	
Verify all required system links are available	ICAS Tech Manual	
Verify all ICAS printers are operational	ICAS Tech Manual	
Verify picture book is available for vibration checks	ICAS Tech Manual	
Verify vibration data is being taken per PMS	ICAS Tech Manual	
Verify vibration disc are installed on all equipment	ICAS Tech Manual	
Conduct vibration surveys on selected equipment during the full power demonstration	ICAS Tech Manual	
Inspect all cabinet air filters	MIP 2020 (M-3)	
Inspect all ICAS computer equipment	MIP 2020 (A-1R)	
Inspect computer internal shocks and fans	MIP 2020 (M-3)	

MAIN PROPULSION UNDERWAY PHASE AGER 2

	TEAM ARRIVAL		
Compe	onent/Sub-Component	Proposed Procedure	Accepted Procedure
Check applicable equipment for correction of deficiencies.			
Tour space, ensure ready for sea.			

DEMONSTRATIONS		
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Demonstrate Full Power ahead (1 hour)	PMS/EOSS/POG/ 9094.1B	
Demonstrate Quick Reversal Astern	POG/Full Power Memo/EOSS	
Demonstrate Quick Reversal Ahead	POG/Full Power Memo/EOSS	
Demonstrate fuel oil purifier (s) operation	EOSS/PMS	
Demonstrate purifier (s)emergency stop capability	EOSS/PMS/Tech manual	